

US EPA ARCHIVE DOCUMENT

Rec'd Team 16  
~~12/16/81~~

SHAUGHNESSEY NO.

REVIEW NO.

EEB BRANCH REVIEW

DATE: IN 10/30/81 OUT 10 DEC 1981

FILE OR REG. NO. 3125-GGO

PETITION OR EXP. PERMIT NO. 10/12/81

DATE OF SUBMISSION 10/29/81

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EEB ESTIMATED COMPLETION DATE

RD ACTION CODE/TYPE OF REVIEW 175/Old Chemical -- New Use

TYPE PRODUCT(S): I, D, H, F, N, R, S Insecticide

DATA ACCESSION NO(S).

PROJECT MANAGER NO. W. Miller (16)

PRODUCT NAME(S) Oftanol 6EC

COMPANY NAME Mobay Chemical Corporation

SUBMISSION PURPOSE Proposed Conditional Registration of  
Subterreanean Termite Use

SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION	Z A.I.

100.0 Pesticide Use

Recommended for treatment of soil for control of subterranean termites.

100.1 Application Methods/Directions

OFTANOL 6 (6 lbs active per gallon) is recommended for treatment of soil for control of subterranean termites (Coptotermes, Heterotermes, and Reti-culitermes) when used as directed as a 1% water emulsion. Refer to Dilution Table for mixing OFTANOL 6 with water. Apply the 1% emulsion as follows:

DILUTION TABLE  
FOR 1% SOLUTION

<u>GALLONS WATER</u>	<u>PLUS</u>	<u>PINTS OFTANOL</u>
100		11.25
50		5.6
25		2.8
12.5		1.4

PRE-CONSTRUCTION TREATMENT

Concrete Slab-on-Ground Construction

Apply an over-all treatment to entire surface of soil to be covered by the slab including areas to be under carports, porches, and entrance platforms. Apply emulsion at the rate of 1 gallon per 10 sq. ft , except that if fill under slab is gravel or other coarse aggregate, apply at the rate of 1-1/2 gal. per 10 sq. ft.

In addition, apply 2 gal/5 linear ft. to soil at critical areas such as (a) along the inside of foundation walls, (b) both sides of planned interior partitions and expansion joints, and (c) around plumbing, utility services, and other features that will penetrate the slab.

After completion of grading, an application should be made by trenching and/or rodding around the slab perimeter. Apply 2 gal. of emulsion per linear ft. per ft. of depth. A trench along the outside foundation should be about 6 inches in width. Use a low pressure spray to treat soil which will be replaced in the trench. Mix the emulsion spray with the soil as it is being replaced in the trench. Cover the treated soil with a thin layer of untreated soil.

Rodding may be used from grade or from the bottom of a shallow trench. Rod holes should be spaced in a manner that will allow for a continuous chemical barrier to be deposited along the treated area. If a shallow trench is used, cover the treated soil with a thin layer of untreated soil. Rod holes should not extend below the top of the footing.

### Buildings With Crawl Space (Pre- or Post-Construction Treatment)

Application should be made by trenching and/or rodding to the top of the footing along the inside and outside of the foundation walls, around piers, plumbing, utility services, and any soil to structure connections. Apply 2 gallons of emulsion per 5 linear ft. per ft. of depth. A trench should be about 6 inches in width. Use a low pressure spray to treat soil which will be replaced in the trench. Mix the emulsion spray with the soil as it is being replaced in the trench. Cover the treated soil with a thin layer of untreated soil.

Rodding may be used from grade or from the bottom of a shallow trench. Rod holes should be spaced in a manner that will allow for a continuous chemical barrier to be deposited along the treated area. If a shallow trench is used, cover the treated soil with a thin layer of untreated soil. Rod holes should not extend below the top of the footing.

DO NOT MAKE A BROADCAST APPLICATION IN A CRAWL SPACE OR APPLY TO THE SOIL BENEATH OR AROUND A PLENUM AIR SPACE. DO NOT MAKE TREATMENT UNTIL LOCATION OF HEAT OR AIR CONDITIONING DUCTS AND VENTS ARE KNOWN AND IDENTIFIED. USE EXTREME CAUTION IN TREATING IN THE VICINITY OF DUCTS AND VENTS.

Under attached porches, carports, entrance platforms and similar situations, when they are slab-type construction or filled, treat as described in slab pre-construction treatment.

Treat all voids in hollow masonry units with at least 1 gal per 5 linear ft. of wall at or near the footing. Apply the emulsion solution so it will reach the footing.

### Buildings With Basement

Apply an overall treatment to the entire surface of the soil to be covered by the basement floor. Apply treatment at the rate of 1 gallon of emulsion per 10 sq. ft., except that if the basement floor fill is gravel or other coarse aggregate, apply at the rate of 1 to 1-1/2 gallons per 10 sq. ft.

Where crawl space exist, treat as described under pre- or post-treatment for crawl-space construction. DO NOT MAKE A BROADCAST APPLICATION IN A CRAWL SPACE OR APPLY TO THE SOIL BENEATH OR AROUND A PLENUM AIR SPACE. DO NOT MAKE TREATMENT UNTIL LOCATION OF HEAT OR AIR CONDITIONING DUCTS AND VENTS ARE KNOWN AND IDENTIFIED. USE EXTREME CAUTION WHEN TREATING IN THE VICINITY OF DUCTS AND VENTS. AVOID DRILLING INTO AIR DUCTS AND VENTS.

### POST-CONSTRUCTION TREATMENT

#### Concrete Slab-on-Ground Construction

Apply an overall treatment under entire surface of floor slab by drilling and rodding through the perimeter of the foundation or apply a treatment under the slab by drilling through the slab inside the perimeter wall, on each side of interior partition walls, expansion joints, plumbing and utility services which penetrate the slab. Apply the emulsion spray at the rate of 1 gallon per 10 sq. ft.

The outside perimeter should be treated as listed under the section Pre-Construction Treatment-Concrete Slab-on-Ground Construction.

#### Buildings With Crawl Space

Treat as described under PRE-CONSTRUCTION TREATMENT-Buildings with Crawl Space.

#### Buildings With Basement

Outside Perimeter: Along the outside of the basement wall and crawl space foundation wall, either rod or dig a narrow trench about 6 inches wide and 6 inches deep. Apply 2 gal. of emulsion per 5 linear ft. per ft. of depth by rodding or by low pressure spray. Where the footing is greater than 30 inches deep, dig a narrow shallow trench next to the wall and apply the emulsion by rodding to the footing, spacing the holes in a manner that will allow for a continuous chemical barrier to be deposited along the treated area. Use a low pressure spray to treat soil which will be replaced in the trench. Mix the emulsion spray with the soil as it is being replaced in the trench. Cover the treated soil with a thin layer of untreated soil.

Inside: Treatment may be required along inside of foundation walls and along one side of interior partition walls (or bearing walls) especially where the wall is connected by fixtures inserted in the floor. Application may also be necessary around sewer pipes, floor drains, conduits or any cracks in the basement floor. Apply 2 gal. of emulsion per 5 linear feet.

Drill holes should be spaced in a manner that will allow for application of a continuous chemical barrier.

Crawl Space: Apply 2 gal. of emulsion per 5 linear ft. of piers, plumbing, etc., as listed under PRE-CONSTRUCTION TREATMENT - Buildings with Crawl Space.

Treat all voids in hollow masonry units with at least 1 gal/5 linear ft. of wall at or near the footing.

NOTE: Avoid contamination of public and private water supplies by following these precautions.

Use anti-backflow equipment or procedures.

Do not treat soil beneath structures that contain below-grade wells or cisterns.

Extreme care must be taken to avoid runoff. Apply only to soil that will accept the emulsion at the specified rate. For example, water-saturated or frozen soil will accept little or no emulsion.

In order to comply with F.H.A. termite proofing requirements, refer to the latest edition of the Housing and Urban Development (HUD) Minimum Property Standards.

Consult state and local specifications for recommended distance of treatment areas from wells.

After treatment, plug securely all holes drilled in construction elements.

100.3 Precautionary Labeling

Environmental Hazard

"This pesticide is toxic to fish and wildlife. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes."

101.0 Chemical and Physical Properties

Refer to previous reviews.

102.0 Behavior in the Environment

Refer to previous reviews.

103.0 Toxicological Properties

Refer to previous reviews.

104.0 Hazard Assessment

104.1 Discussion

OFTANOL 6 is an organophosphate for use against subterranean termites. Application of a 1% emulsion is to be applied around buildings, concrete Slab-on-Ground constructions, and crawl spaces (refer to section 100.1 of this review).

Oftanol is presently conditionally registered for use on corn as a 15% and 20% granular (soil incorporated) and an EC.

107.0 Conclusions

The Ecological Effects Branch (EEB) concludes that no significant increase in exposure or acute risk to non-target organisms should occur from the use of OFTANOL 6 because of its limited use in and around dwellings. (This use pattern does not require the basic acute toxicity studies).

*Michael Rexrode*

Michael Rexrode, Fishery Biologist  
Ecological Effects Branch

*Harry Craven*

Harry Craven, Section Head  
Ecological Effects Branch

*Norman Cook for 12/11/81*

Clayton Bushong, Chief  
Ecological Effects Branch  
Hazard Evaluation Division